FIG. 1

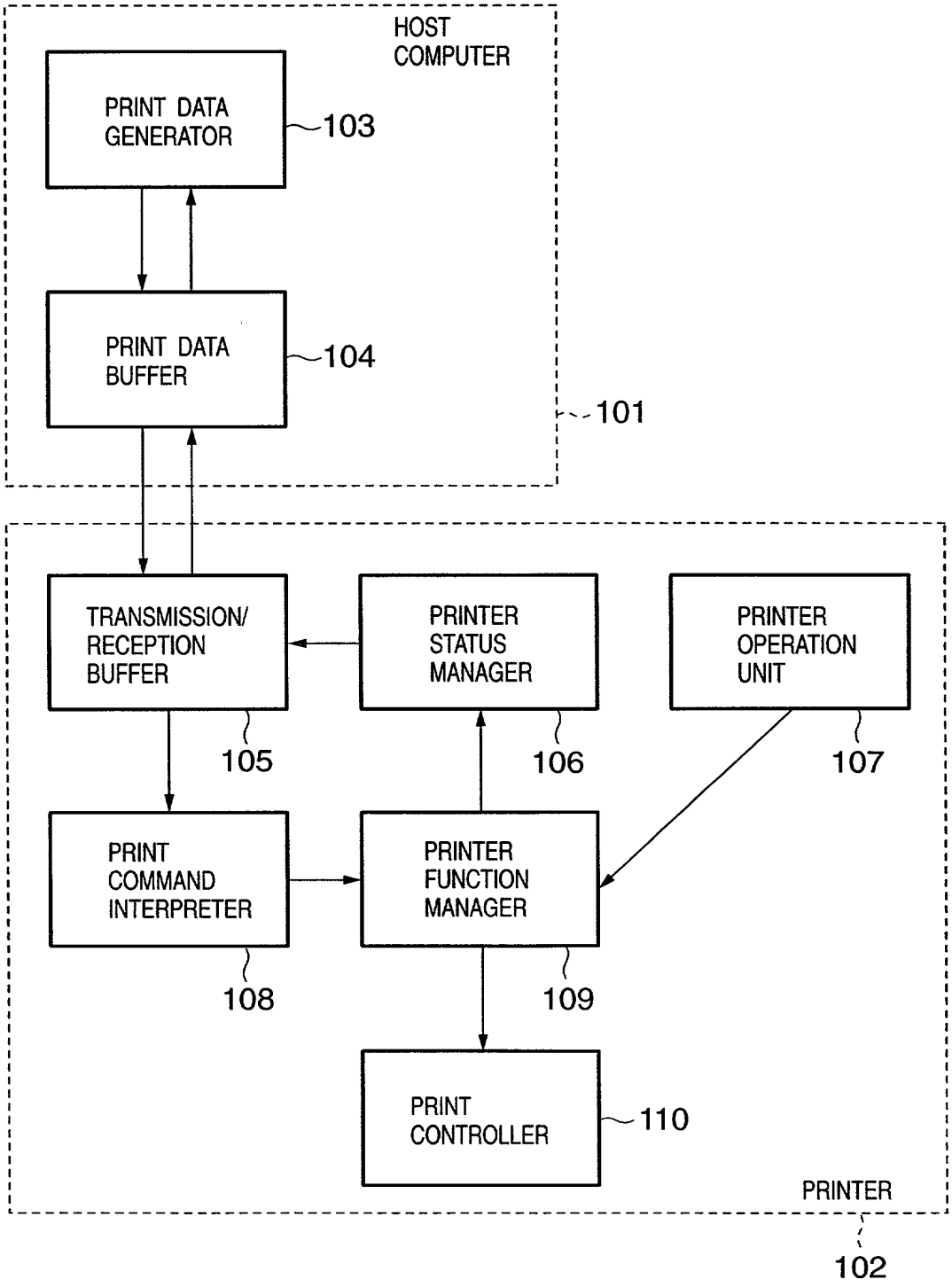

HOST
COMPUTER
PRINT DATA
GENERATOR
103
PRINT DATA
BUFFER
104
101
TRANSMISSION/
RECEPTION
BUFFER
PRINTER
STATUS
MANAGER
PRINTER
OPERATION
UNIT
105
106
107
PRINT
COMMAND
INTERPRETER
PRINTER
FUNCTION
MANAGER
108
109
PRINT
CONTROLLER
110
PRINTER
102

FIG. 2

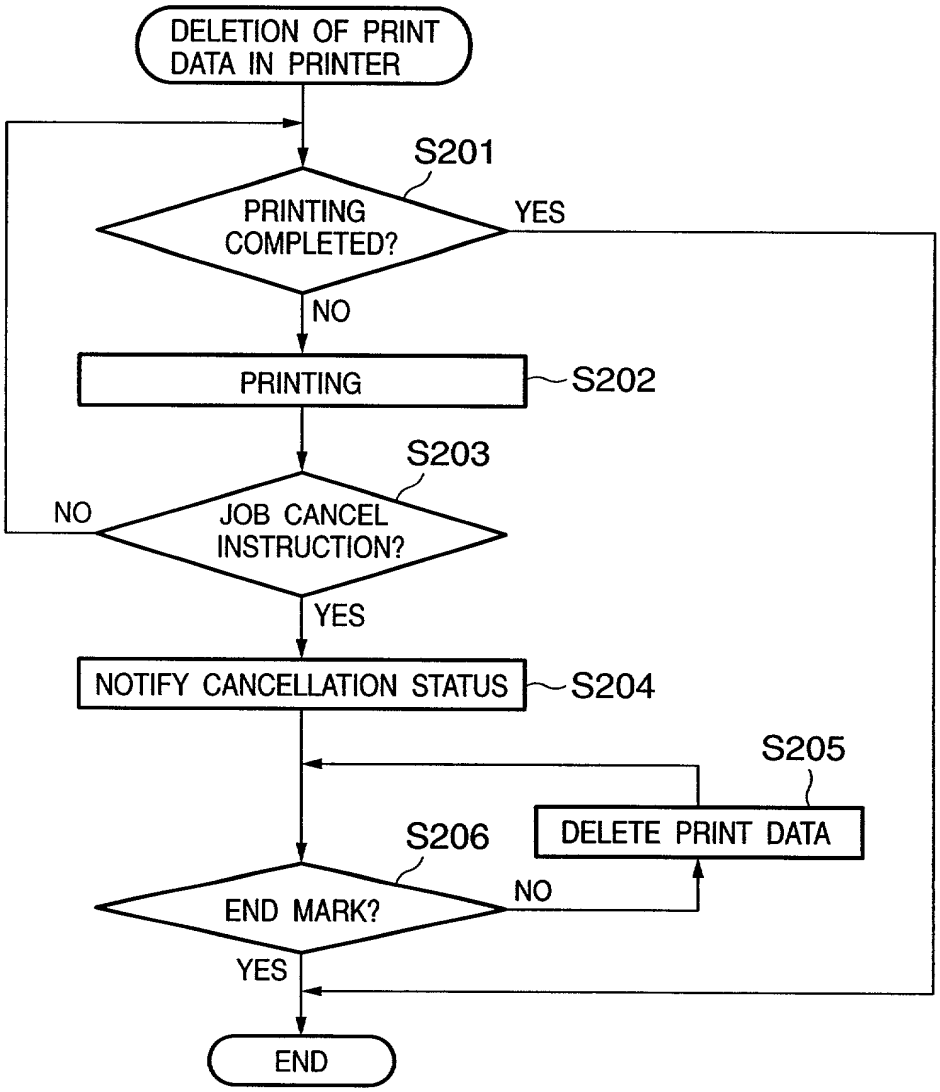

DELETION OF PRINT DATA IN PRINTER
S201
PRINTING COMPLETED?
YES
NO
PRINTING
S202
S203
JOB CANCEL INSTRUCTION?
NO
YES
NOTIFY CANCELLATION STATUS
S204
S205
DELETE PRINT DATA
S206
END MARK?
NO
YES
END

FIG. 3

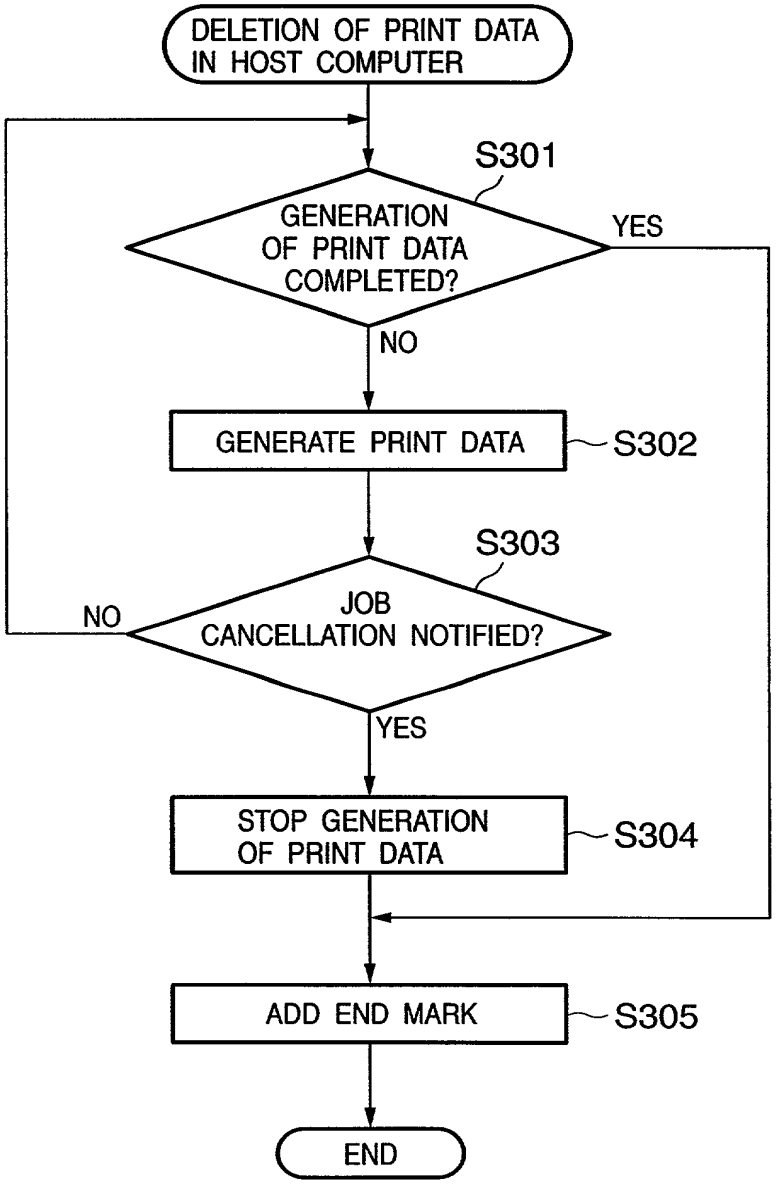

DELETION OF PRINT DATA IN HOST COMPUTER
S301
GENERATION OF PRINT DATA COMPLETED?
YES
NO
GENERATE PRINT DATA
S302
S303
JOB CANCELLATION NOTIFIED?
NO
YES
STOP GENERATION OF PRINT DATA
S304
ADD END MARK
S305
END

FIG. 4

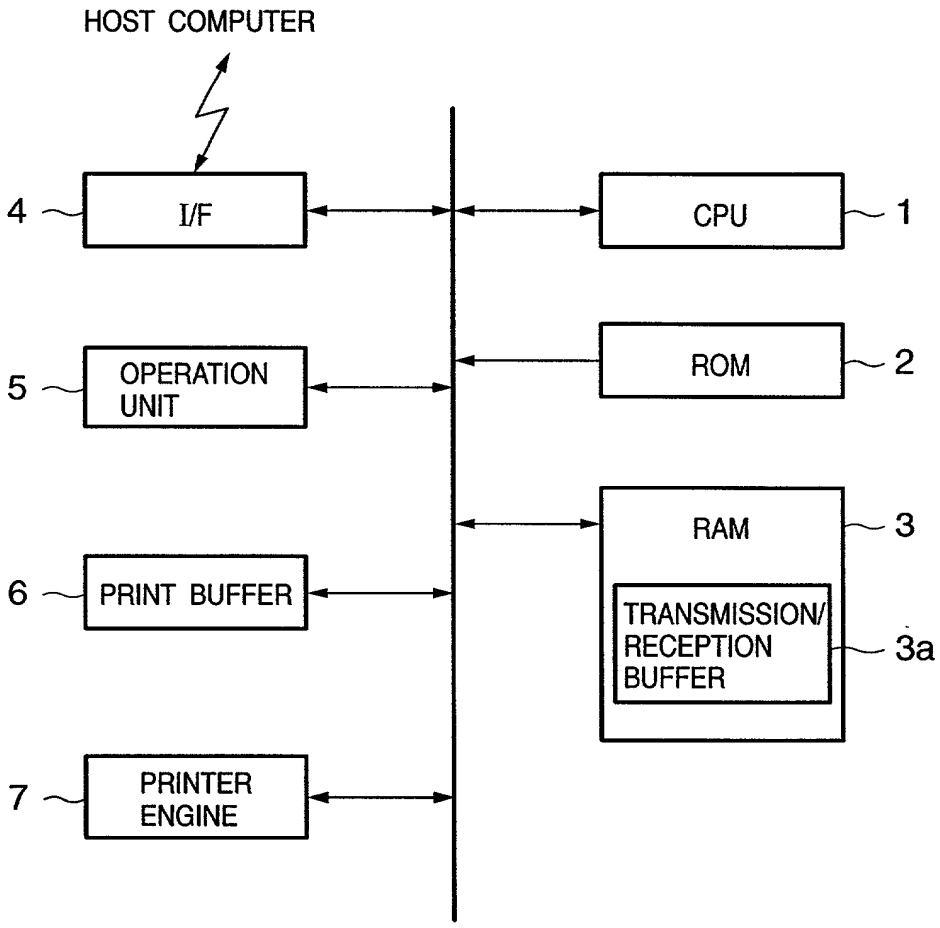

HOST COMPUTER
4
I/F
CPU
1
5
OPERATION UNIT
ROM
2
RAM
3
6
PRINT BUFFER
TRANSMISSION/ RECEPTION BUFFER
3a
7
PRINTER ENGINE

FIG. 5

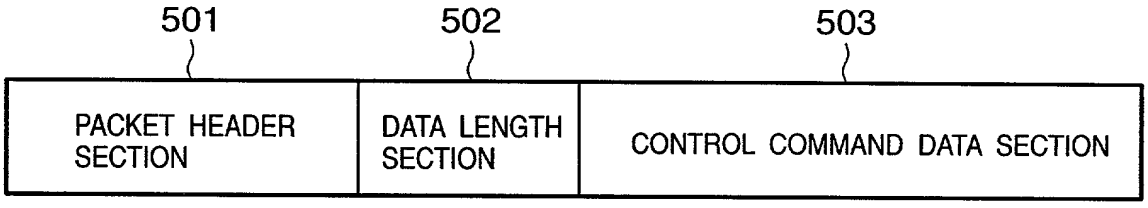

501
502
503
PACKET HEADER SECTION
DATA LENGTH SECTION
CONTROL COMMAND DATA SECTION

FIG. 6

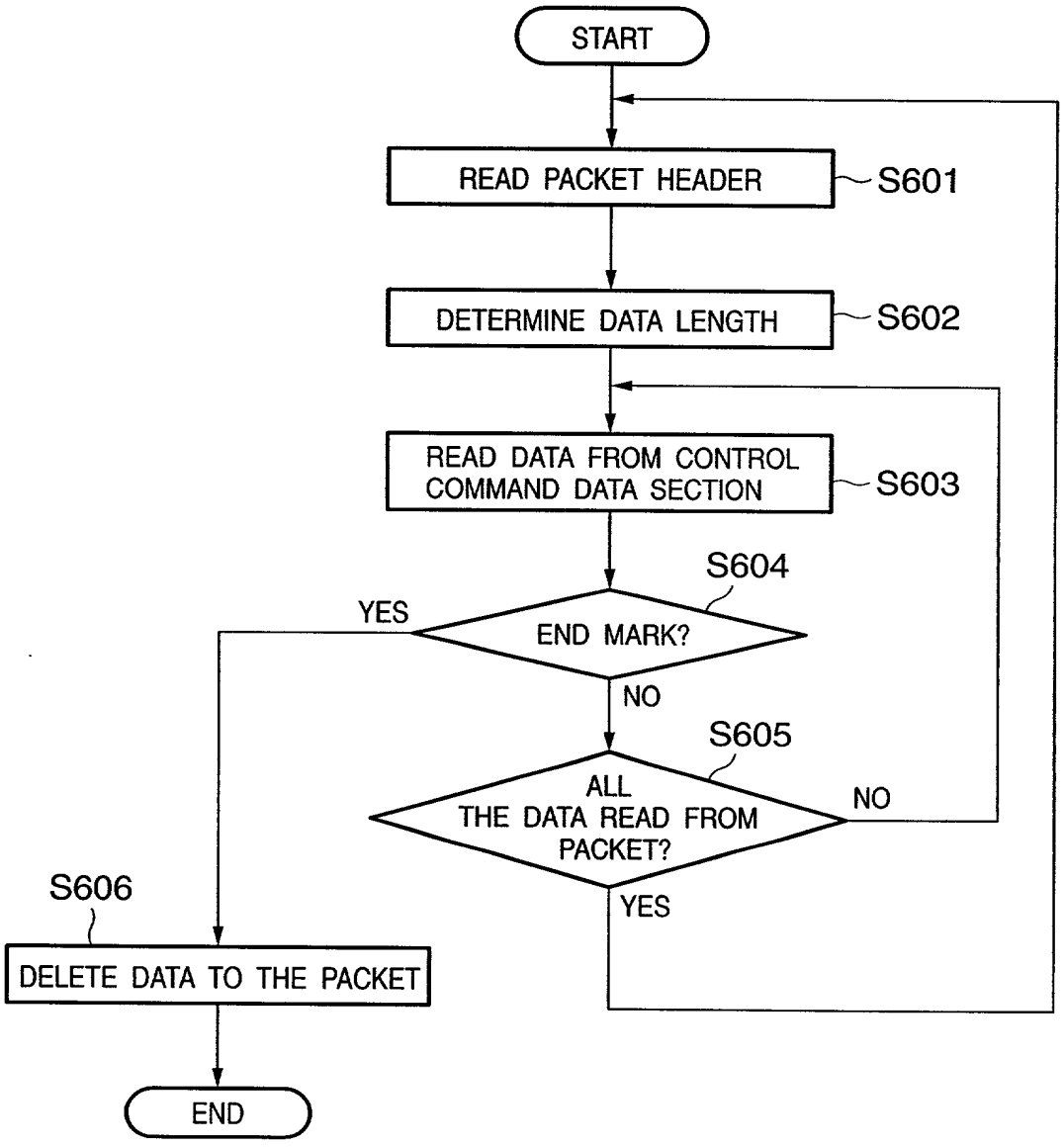

START
READ PACKET HEADER
S601
DETERMINE DATA LENGTH
S602
READ DATA FROM CONTROL COMMAND DATA SECTION
S603
S604
END MARK?
YES
NO
S605
ALL THE DATA READ FROM PACKET?
NO
YES
S606
DELETE DATA TO THE PACKET
END

FIG. 7

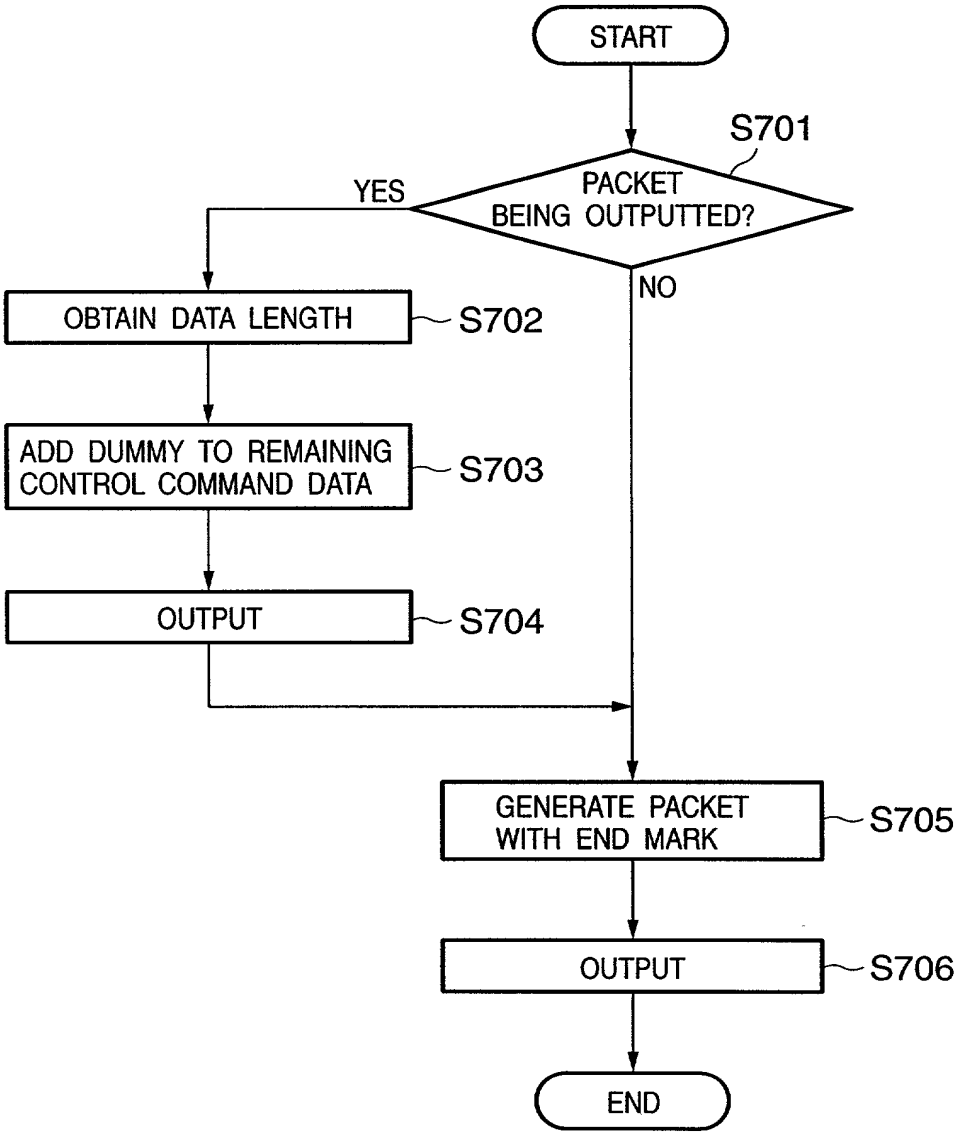

START
S701
PACKET BEING OUTPUTTED?
YES
NO
OBTAIN DATA LENGTH
S702
ADD DUMMY TO REMAINING CONTROL COMMAND DATA
S703
OUTPUT
S704
GENERATE PACKET WITH END MARK
S705
OUTPUT
S706
END

FIG. 8

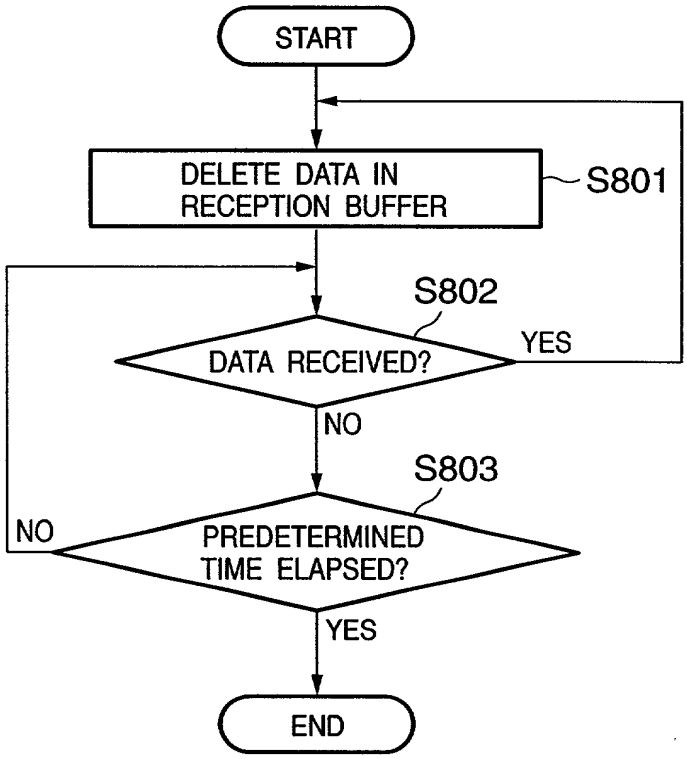

START
DELETE DATA IN RECEPTION BUFFER
S801
S802
DATA RECEIVED?
YES
NO
S803
PREDETERMINED TIME ELAPSED?
NO
YES
END

FIG. 9

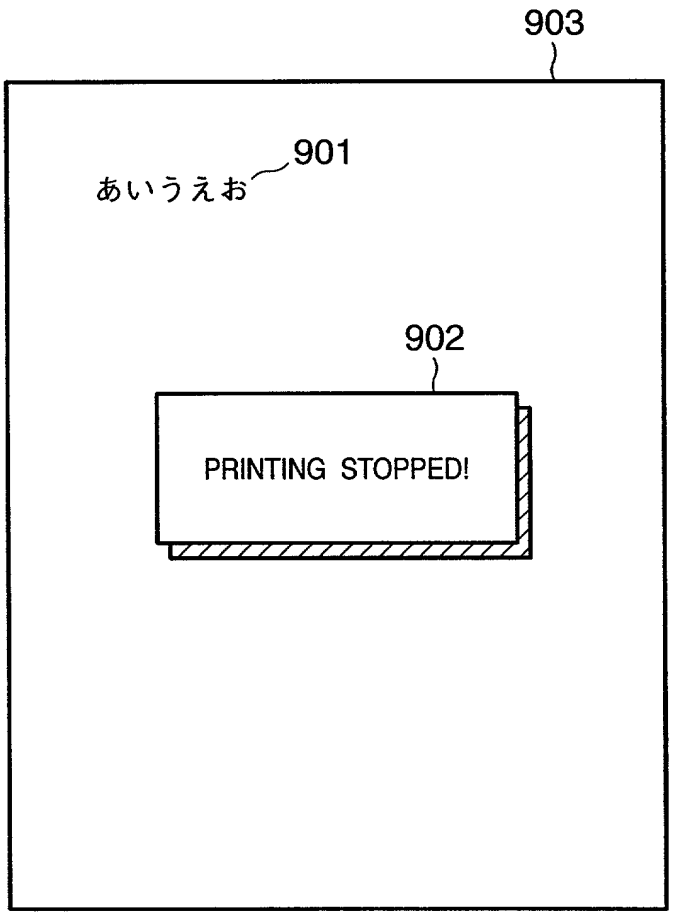


FIG. 10

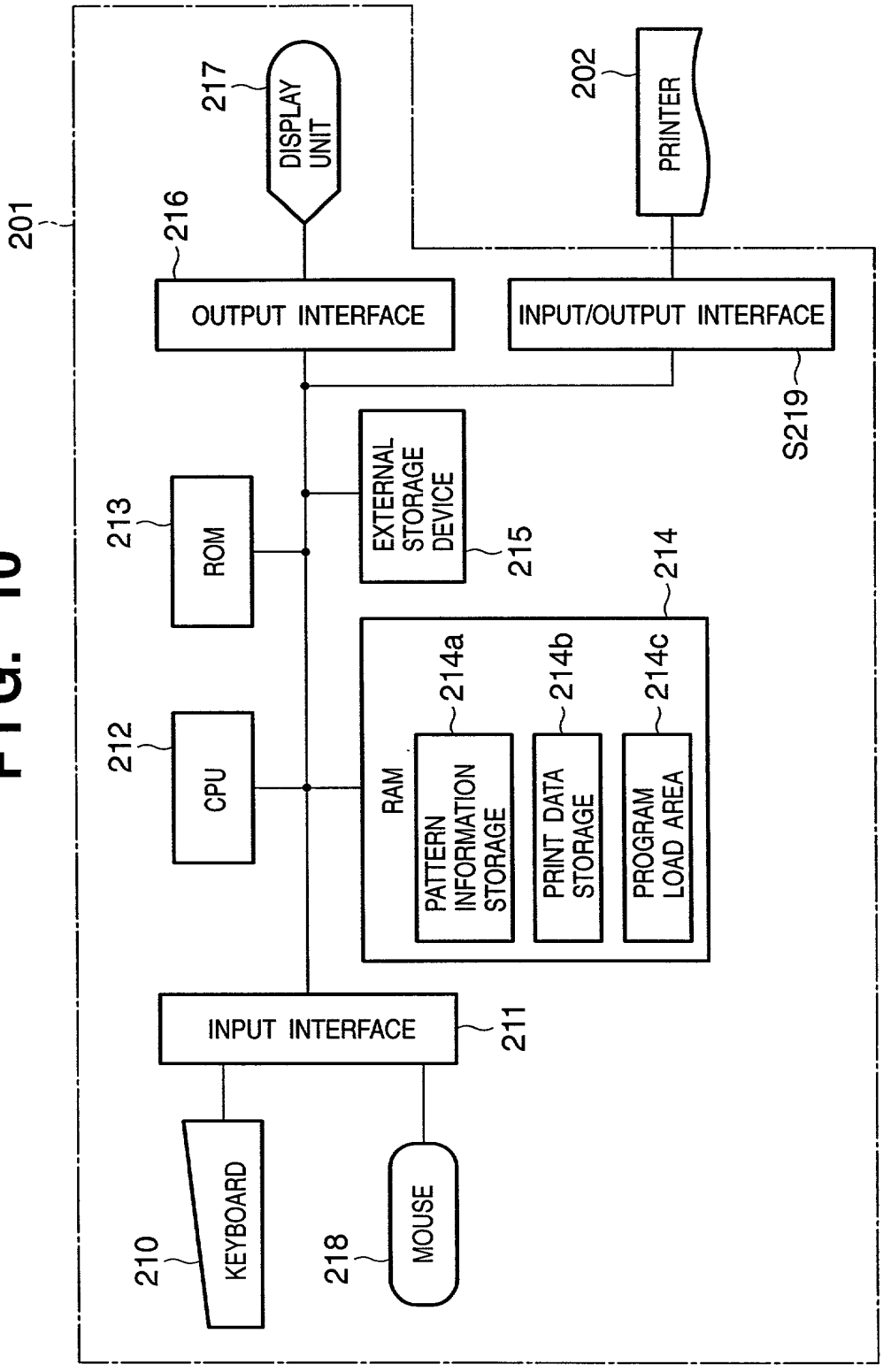

201
217
DISPLAY UNIT
202
PRINTER
216
OUTPUT INTERFACE
INPUT/OUTPUT INTERFACE
S219
213
ROM
EXTERNAL STORAGE DEVICE
215
214
214a
214b
214c
212
CPU
RAM
PATTERN INFORMATION STORAGE
PRINT DATA STORAGE
PROGRAM LOAD AREA
INPUT INTERFACE
211
210
KEYBOARD
218
MOUSE

FIG. 11

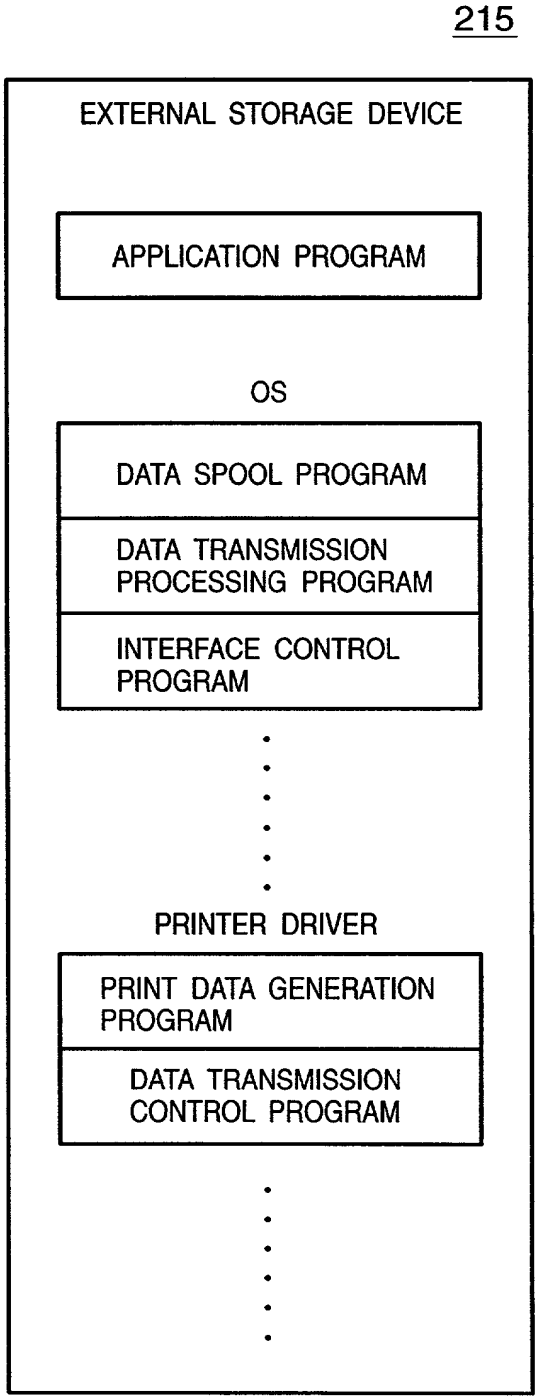

215
EXTERNAL STORAGE DEVICE
APPLICATION PROGRAM
OS
DATA SPOOL PROGRAM
DATA TRANSMISSION PROCESSING PROGRAM
INTERFACE CONTROL PROGRAM
PRINTER DRIVER
PRINT DATA GENERATION PROGRAM
DATA TRANSMISSION CONTROL PROGRAM

FIG. 12

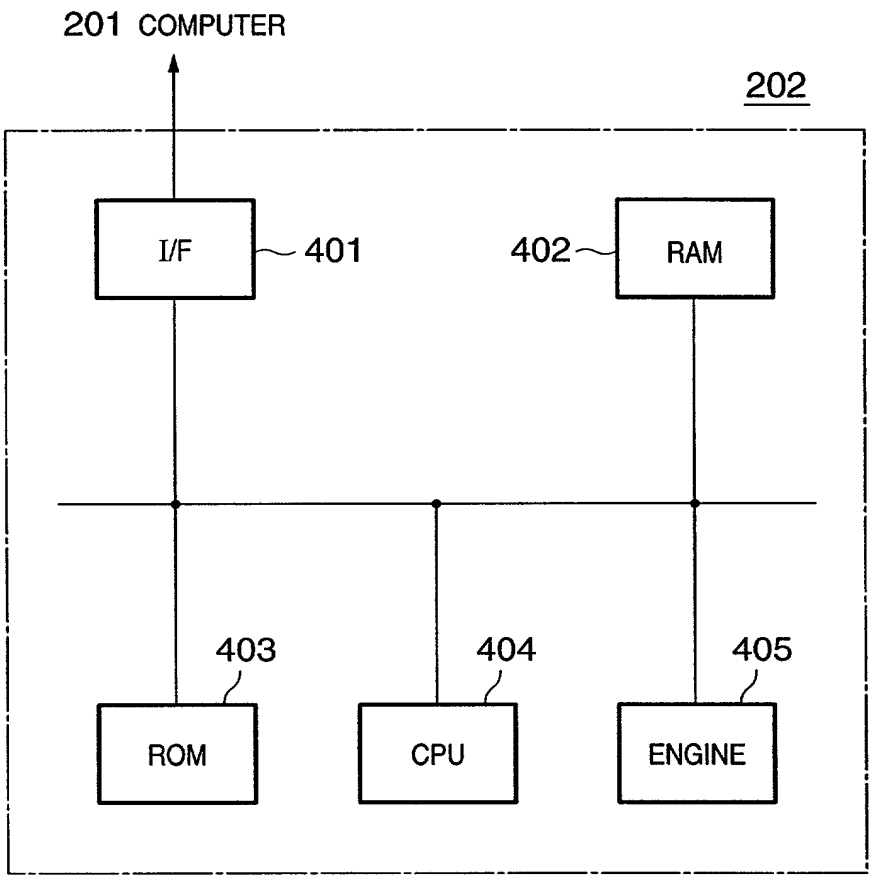


FIG. 13

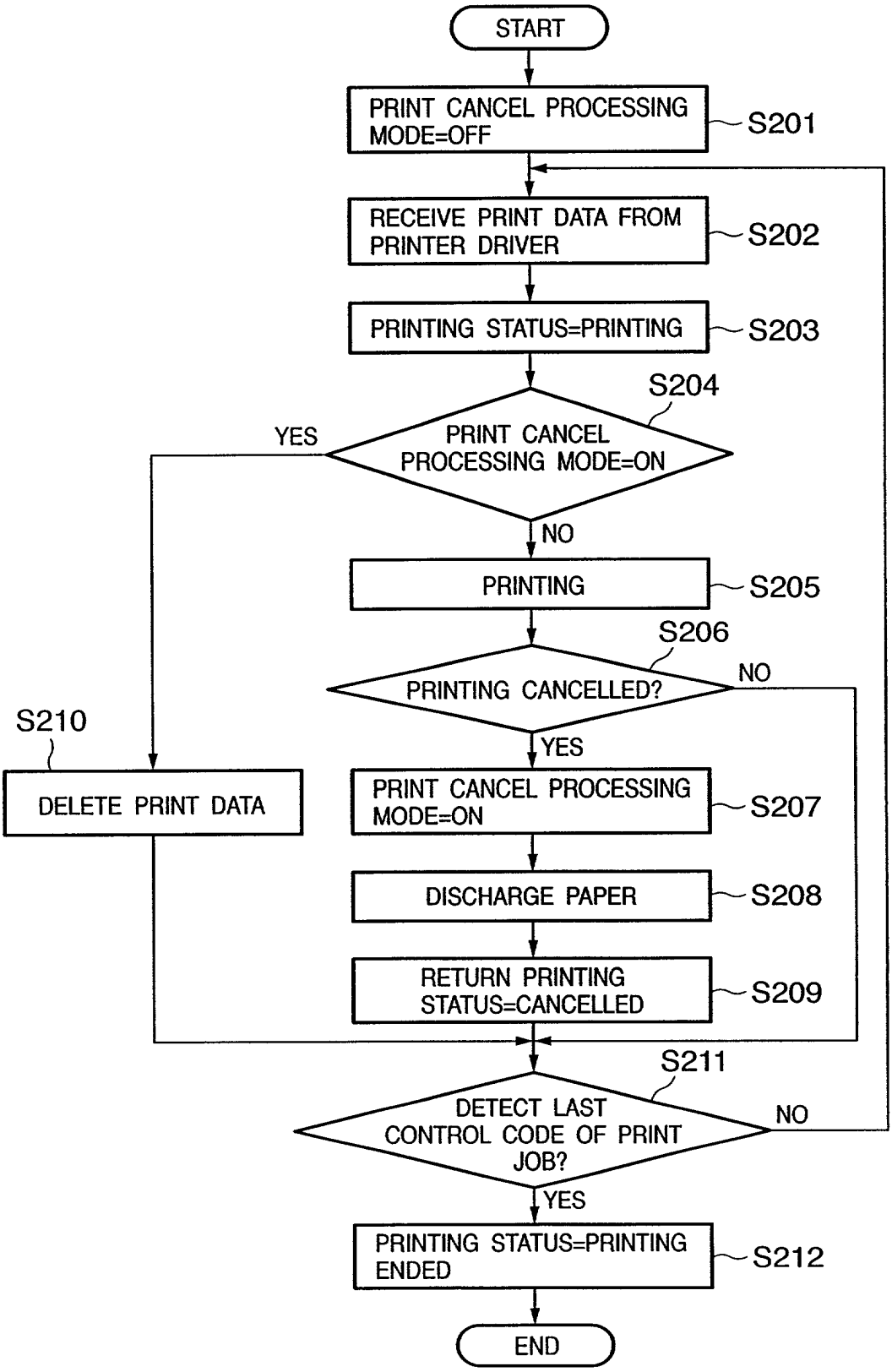
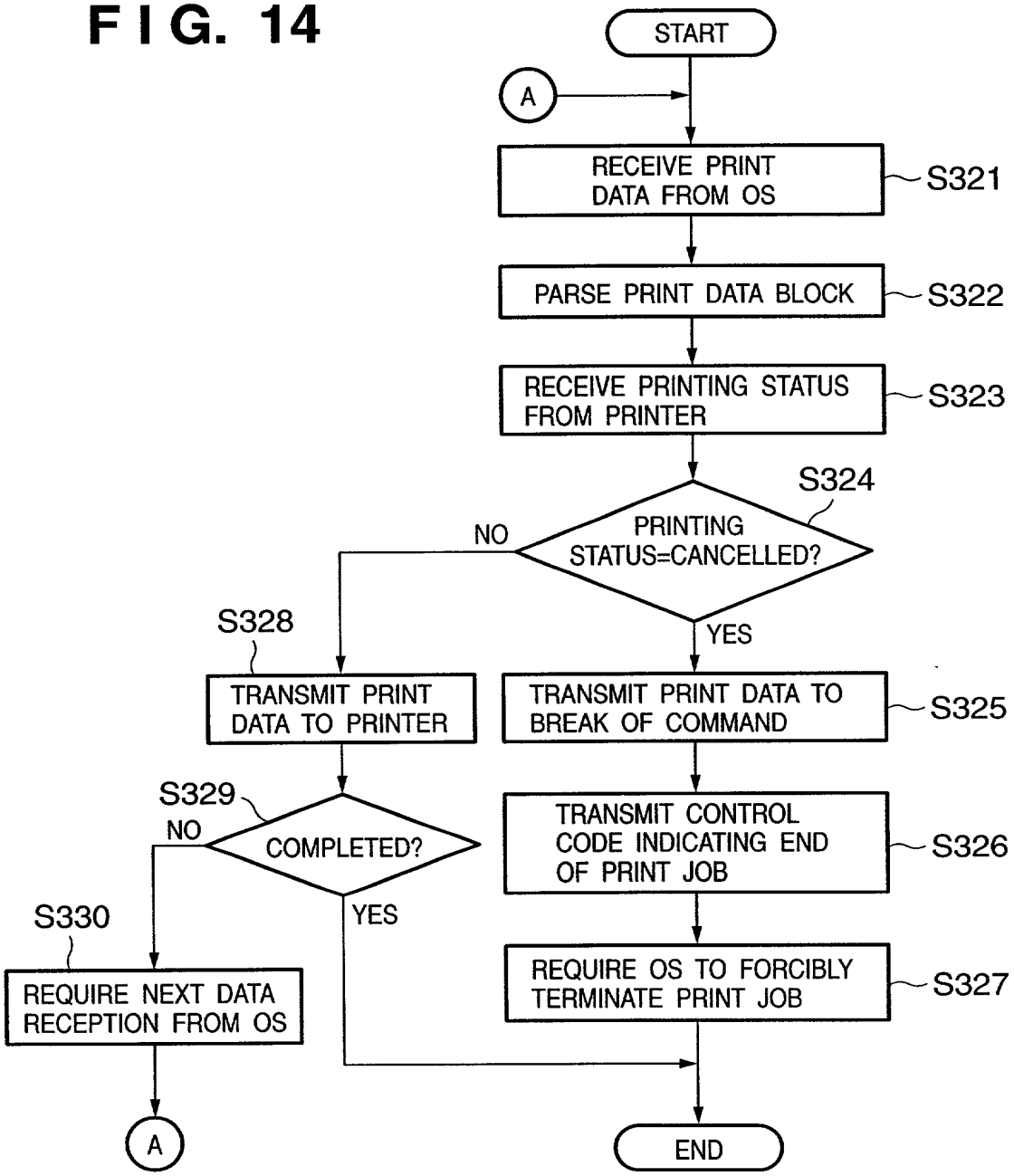

START
PRINT CANCEL PROCESSING MODE=OFF
S201
RECEIVE PRINT DATA FROM PRINTER DRIVER
S202
PRINTING STATUS=PRINTING
S203
S204
PRINT CANCEL PROCESSING MODE=ON
YES
NO
PRINTING
S205
S206
PRINTING CANCELLED?
NO
YES
S210
DELETE PRINT DATA
PRINT CANCEL PROCESSING MODE=ON
S207
DISCHARGE PAPER
S208
RETURN PRINTING STATUS=CANCELLED
S209
S211
DETECT LAST CONTROL CODE OF PRINT JOB?
NO
YES
PRINTING STATUS=PRINTING ENDED
S212
END

FIG. 14


START
A
RECEIVE PRINT DATA FROM OS
S321
PARSE PRINT DATA BLOCK
S322
RECEIVE PRINTING STATUS FROM PRINTER
S323
S324
PRINTING STATUS=CANCELLED?
NO
YES
S328
TRANSMIT PRINT DATA TO PRINTER
TRANSMIT PRINT DATA TO BREAK OF COMMAND
S325
S329
NO
COMPLETED?
YES
TRANSMIT CONTROL CODE INDICATING END OF PRINT JOB
S326
S330
REQUIRE NEXT DATA RECEPTION FROM OS
REQUIRE OS TO FORCIBLY TERMINATE PRINT JOB
S327
A
END